

CLAIMS

What is claimed is:

- Subj*
- 1 1. A method for passively monitoring the servicing of a vehicle during
2 distribution of fluid products thereto, comprising the steps of:
3 (a) obtaining a first set of data associated with a particular vehicle
4 port to be serviced;
5 (b) determining whether or not said first set of data identifies a
6 particular port intended to be serviced and generating a signal
7 commensurate therewith;
8 (c) obtaining a second set of data associated with distribution of a
9 product to the selected port; and
10 (d) logging the signal, the first set of data and the second set of data.
- 1 2. A method for passively monitoring the servicing of a vehicle during
2 distribution of fluid products thereto as recited in claim 1, wherein steps (a)
3 through (d) are repeated until service of each port on a vehicle is complete.
- Subj*
- 1 3. A method for passively monitoring the servicing of a vehicle during
2 distribution of fluid products thereto as recited in claim 1, wherein a horn is
3 actuated by the signal to validate selection of the port as the intended port.
- 1 4. A method for passively monitoring the servicing of a vehicle during
2 distribution of fluid products thereto as recited in claim 1, wherein the signal
3 causes the sounding of an alarm, the alarm warning of improper distribution
4 of the product.
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- 1 5. A computer program embodied on a computer readable medium for
2 passively monitoring the servicing of a vehicle during distribution of fluid
3 products thereto comprising:

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- (a) a code segment that causes a first set of data, associated with a particular vehicle port to be serviced, to be obtained;
- (b) a code segment that causes a determination of whether or not said first set of data identifies a particular port intended to be serviced and that causes a signal to be generated commensurate therewith;
- (c) a code segment that causes a second set of data, associated with distribution of a product to the selected port, to be obtained; and
- (d) a code segment that causes the signal, the first set of data and the second set of data to be logged.

1 6. A computer program for passively monitoring the servicing of a vehicle
2 during distribution of fluid products thereto as recited in claim 5, wherein a
3 code segment causes the code segments performing steps (a) through (d) to
4 repeat until service of the vehicle is complete.

1 7. A computer program for passively monitoring the servicing of a vehicle
2 during distribution of fluid products thereto as recited in claim 5, wherein
3 said signal activates a horn to validate selection of the port as the intended
4 port.

1 8. A computer program for passively monitoring the servicing of a vehicle
2 during distribution of fluid products thereto as recited in claim 5, wherein the
3 signal causes the sounding of an alarm, the alarm warning of improper
4 distribution of the product.

1 9. A system for passively monitoring the servicing of a vehicle during
2 distribution of fluid products thereto comprising:

- 3 (a) indicia providing a first set of data associated with a particular
4 vehicle port to be serviced;

- 5 (b) logic that determines whether or not said first set of data identifies
6 a particular port intended to be serviced and that generates a
7 signal commensurate therewith;
8 (c) apparatus for generating a second set of data associated with
9 distribution of a product to the selected port; and
10 (d) logic that logs the signal, the first set of data and the second set of
11 data.

- 1 10. A system for passively monitoring the servicing of a vehicle during
2 distribution of fluid products thereto as recited in claim 9, wherein logic
3 causes the logic performing steps (a) through (d) to repeat until service of the
4 vehicle is complete.
- 1 11. A system for passively monitoring the servicing of a vehicle during
2 distribution of fluid products thereto as recited in claim 9, wherein a horn is
3 actuated by the signal, to validate selection of the port as the intended port.
- 1 12. A system for passively monitoring the servicing of a vehicle during
2 distribution of fluid products thereto as recited in claim 9, wherein the signal
3 causes the sounding of an alarm, the alarm warning of improper distribution
4 of the product.
- 1 13. An apparatus for passively monitoring the servicing of a vehicle during
2 distribution of fluid products to fill ports on the vehicle, comprising:
3 a port identifying means associated with each port on a vehicle to be
4 serviced, said identifying means containing port data relating to the identity
5 of the vehicle and the identity of the port;
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7 reader means for reading said port data and transmitting same to a remote
8 receiver;

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10 flow monitoring means associated with said remote receiver and the source
11 of each fluid to be distributed and operative to generate flow data indicating
12 the fluid source, the type of fluid to be dispensed from said fluid source, and
13 the volume of fluid actually dispensed from said fluid source;

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15 means for comparing said port data to said flow data and operative to
16 generate an alarm in the event that any aspect of said port data is
17 incompatible with any aspect of said flow data; and

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19 means for producing a record of said port data, said flow data and the fact
20 that an alarm was generated.

1 14. An apparatus as recited in claim 13, wherein said identifying means further
2 contains port data relating to the type of material to be distributed to the port.

1 15. An apparatus as recited in claim 13, wherein the flow monitoring means
2 includes a lookup table identifying the type of material to be put into a
3 particular port.

1 16. An apparatus as recited in claim 13, and further comprising means for
2 determining the location of said vehicle to be serviced and the time of
3 servicing, and for reporting same to said means for producing a record
4 whereby such location is included in said record.

1 17. An apparatus as recited in claim 13, wherein said port identifying means
2 includes an array of indicators organized so that when inspected, a set of
3 code terms can be developed uniquely identifying said vehicle, said port and
4 said type of material to be distributed to said port.

1 18. An apparatus as recited in claim 13, wherein said reader means is further
2 operative to generate operator data identifying the operator responsible for

- 3 servicing said vehicle, and to transmit said operator data to said remote
4 receiver.
- 1 19. An apparatus as recited in claim 14, wherein said port identifying means
2 includes an array of indicators organized so that when inspected, a set of
3 code terms can be developed uniquely identifying said vehicle, said port and
4 said type of material to be distributed to said port.
- 1 20. An apparatus as recited in claim 14, wherein said reader means is further
2 operative to generate operator data identifying the operator responsible for
3 servicing said vehicle and for transmitting said operator data to said remote
4 receiver.
- 1 21. An apparatus as recited in claim 15, wherein said reader means is further
2 operative to generate operator data identifying the operator responsible for
3 servicing said vehicle and for transmitting said operator data to said remote
4 receiver.
- 1 22. A method of passively monitoring the servicing of a vehicle during
2 distribution of fluid products to fill ports on the vehicle, comprising the steps
3 of:
4 identifying each port on a vehicle to be serviced, by providing identifying
5 means proximate each said port containing port data relating to the identity
6 of the vehicle and the identity of the port;
7
8 reading said port data and transmitting same to a remote receiver;
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10 monitoring the source of each fluid to be distributed and generating flow data
11 indicating the fluid source, the type of fluid to be dispensed from said fluid
12 source, and the volume of fluid actually dispensed from said fluid source;
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14 comparing said port data to said flow data and generating an alarm in the
15 event that any aspect of said port data is incompatible with any aspect of said
16 flow data; and

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